


**Q.1.** `package` Lab6;  
`import` java.util.Scanner;  
`public class` Q\_1 {  
  
    `public static void` main(String[] args) {  
  
        // `TODO` Auto-generated method stub  
  
        Scanner `r` = `new` Scanner (System.`in`);  
  
        System.`out`.println("Enter the temperature in Fahrenheit");  
        `double` f = `r`.nextDouble();  
  
        `double` c = ( (f-32.0)\*5.0)/9.0;  
  
        System.`out`.println("Temperature in Celsius is " +c);  
  
    }  
}



```
Enter the temperature in Fahrenheit
100
Temperature in Celsius is 37.77777777777778
```

**Q.2.** `package` Lab6;  
`import` java.util.Scanner;  
`public class` Q\_2 {

```

    public static void main(String[] args) {
// TODO Auto-generated method stub

        Scanner r =new Scanner (System.in);

        System.out.println("Enter the Number");
        int n=r.nextInt();

        int x=n/10;

        int a,b,c;

        a=x/10;
        b=x%10;
        c=n%10;

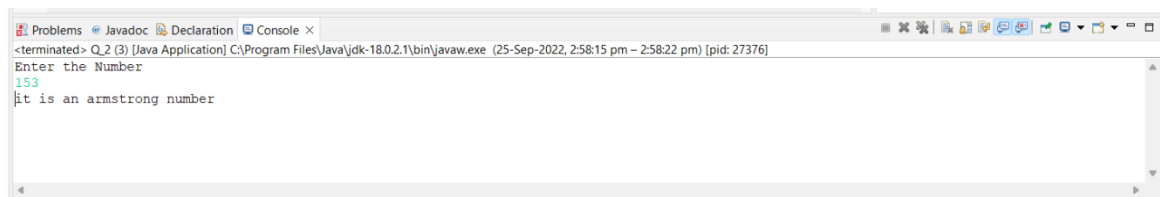
        if ((a*a*a)+(b*b*b)+(c*c*c)== (n))
        {

            System.out.println("it is an armstrong number");
        }

        else
            System.out.println("it is not an armstrong number");

    }
}

```



Q.3.1. package Lab6;  
import java.util.Scanner;

```

public class Q_3 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner r =new Scanner (System.in);

        int a,b,c,x;

        System.out.println("Enter the number of pizza");
        a=r.nextInt();

        System.out.println("Enter the number of puffs");
        b=r.nextInt();

        System.out.println("Enter the number of cold drink");
        c=r.nextInt();

        System.out.println("cost of ordered pizza: " +a*100 );
        System.out.println("cost of ordered puffs: " +b*20 );
        System.out.println("cost of ordered cold drink: " +c*10 );

        x=((a*100)+(b*20)+(c*10));

        System.out.println("Total price= "+x );
    }
}

```

The screenshot shows a Java IDE window with a console output. The title bar indicates the application is 'Q\_3 (3) [Java Application]' running on 'C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe' on '25-Sep-2022, 3:02:02 pm - 3:02:13 pm' with PID 33052. The console output is as follows:

```

<terminated> Q_3 (3) [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (25-Sep-2022, 3:02:02 pm - 3:02:13 pm) [pid: 33052]
Enter the number of pizza
10
Enter the number of puffs
12
Enter the number of cold drink
5
cost of ordered pizza: 1000
cost of ordered puffs: 240
cost of ordered cold drink: 50
Total price= 1290

```

Q.3.2. `package` Lab6;

`import` java.util.Scanner;

`public class` Q\_\_3\_2 {

`public static void` main(String[] args) {  
        // `TODO` Auto-generated method stub

        Scanner `r` = `new` Scanner (System.`in`);

        System.`out`.println("Enter amount of kwh units of elecricity  
consumed");

`double` u=r.nextDouble();

`if`(u>=1 && u<=100)

        System.`out`.println("charge for the units: " +u\*10);

`else if`(u>100 && u<=200)

        System.`out`.println("charge for the units: " +u\*15);

`else if`( u>200 && u<=300)

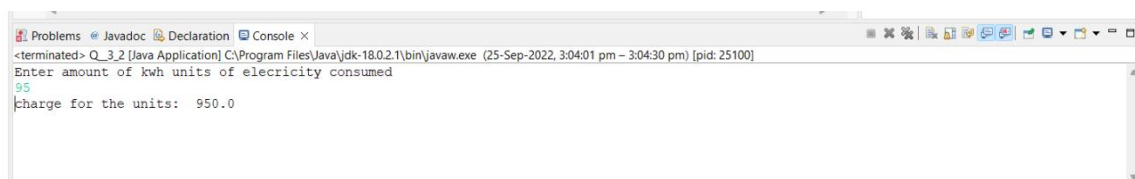
        System.`out`.println("charge for the units " +u\*20);

`else if`(u>300)

        System.`out`.println( "charge for the units " +u\*25);

    }

}



```
Problems Javadoc Declaration Console x
<terminated> Q_3_2 [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.exe (25-Sep-2022, 3:04:01 pm - 3:04:30 pm) [pid: 25100]
Enter amount of kwh units of elecricity consumed
95
charge for the units: 950.0
```

```

Q.4. package Lab6;
import java.util.*;
public class Q_4 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner s = new Scanner (System.in);

        int a[] = {1,2,3,4,5};
        int key=4;

        int f=0; //first
        int l=a.length-1; //last

        int mid=(f+l)/2;

        while (f<=l)
        {
            if(a[mid]<key)
            {
                f=mid+1;
            }
            else if (a[mid]==key)
            {System.out.println("record found");
            break;
            }
            else
            {
                l=mid-1;
            }
            mid=(f+l)/2;
        }

        if (f>l)

```

```
        System.out.println("record not found");
    }

}

40
41 }
42
43
44
```

Problems Javadoc Declaration Console x

<terminated> Q\_4 (3) [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.exe (25-Sep-2022, 3:05:21 pm - 3:05:21 pm) [pid: 21992]

record found

**Q.5.** `package` Lab6;

```
import java.util.*;
public class Q_5 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int a[] = {4,7,1,0};

        for (int i=0;i<a.length;i++)
        {
            boolean flag=false;
            for (int j=i+1;j<a.length;j++)

            {
                if(a[i]<= a[j])
                {
                    flag=true;
                    break;
                }
            }

            if (flag==false)
            {
                System.out.print(" " +a[i]);
            }
        }
    }
}
```



```
Q.6. package Lab6;
import java.util.*;
public class Q_6 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

String s1= "cdacnoida";
String s2="ciddacnoa";

char c1[]=s1.toCharArray();
char c2[]=s2.toCharArray();

if (c1.length !=c2.length)

{
    System.out.println("Not an anagram");
}

Arrays.sort(c1);
Arrays.sort(c2);

for (int i=0;i<c1.length;i++)
{
    if(c1[i]!=c2[i])
    {
        System.out.println("Not an anagram");
        System .exit(0);
    }

}
```

```
        System.out.println("An anagram");  
    }  
}
```

